

FIGURE 1

Reaction Microarrays

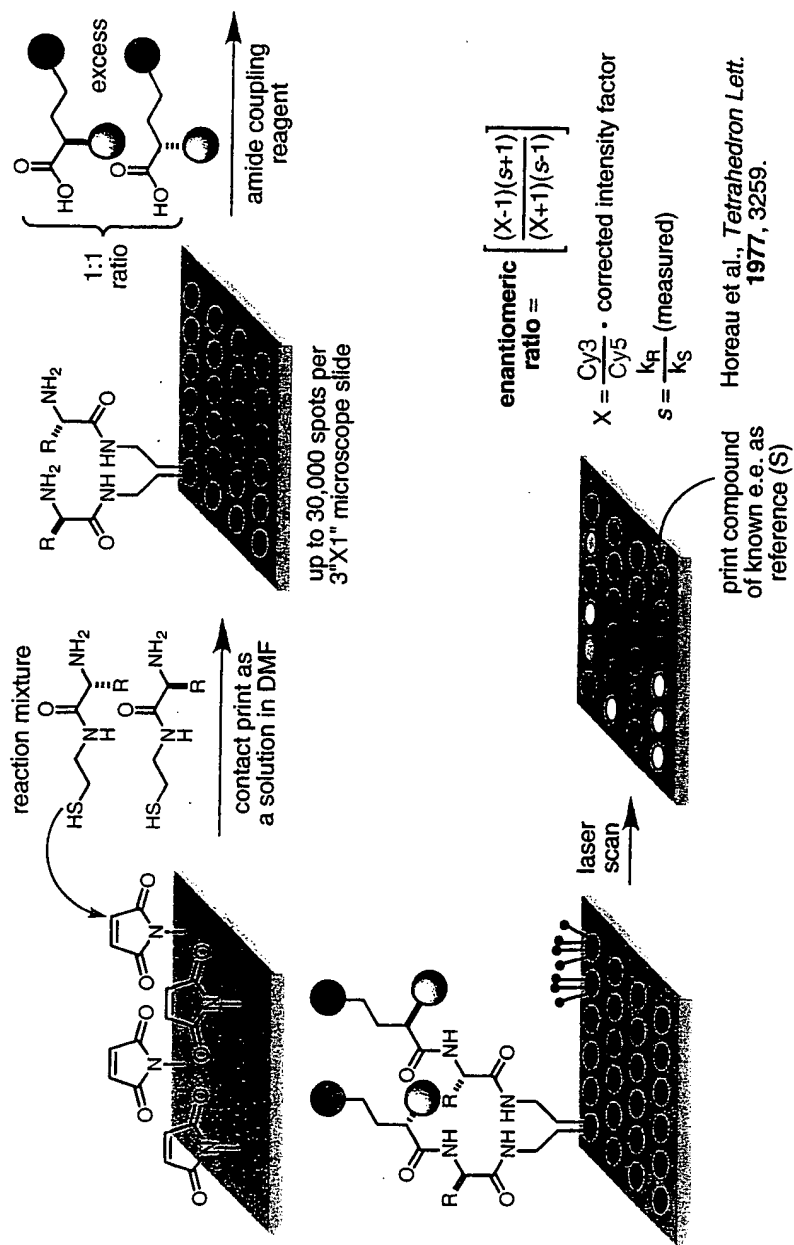
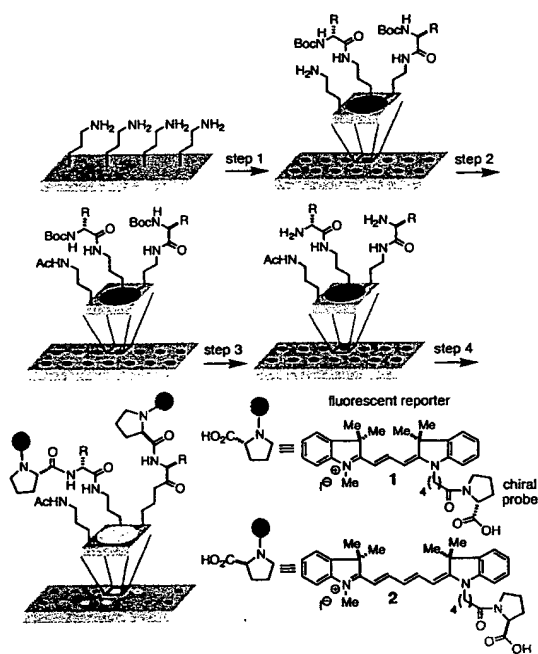


FIGURE 2

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Reagents and conditions: step 1) $\text{BocHNCH(R)CO}_2\text{H}$, PyAOP, $^i\text{Pr}_2\text{NEt}$, DMF;; step 2) Ac_2O , pyridine; step 3) 10% $\text{CF}_3\text{CO}_2\text{H}$ and 10% Et_3SiH in CH_2Cl_2 , then 3% Et_3N in CH_2Cl_2 ; step 4) Pentafluorophenyl diphenylphosphinate, $^i\text{Pr}_2\text{NEt}$, 1:1 mixture of 1 and 2, DMF, -20°C .

FIGURE 4

Attachment of amino acids as their allyl amides to selenenyl bromide-functionalized microspheres

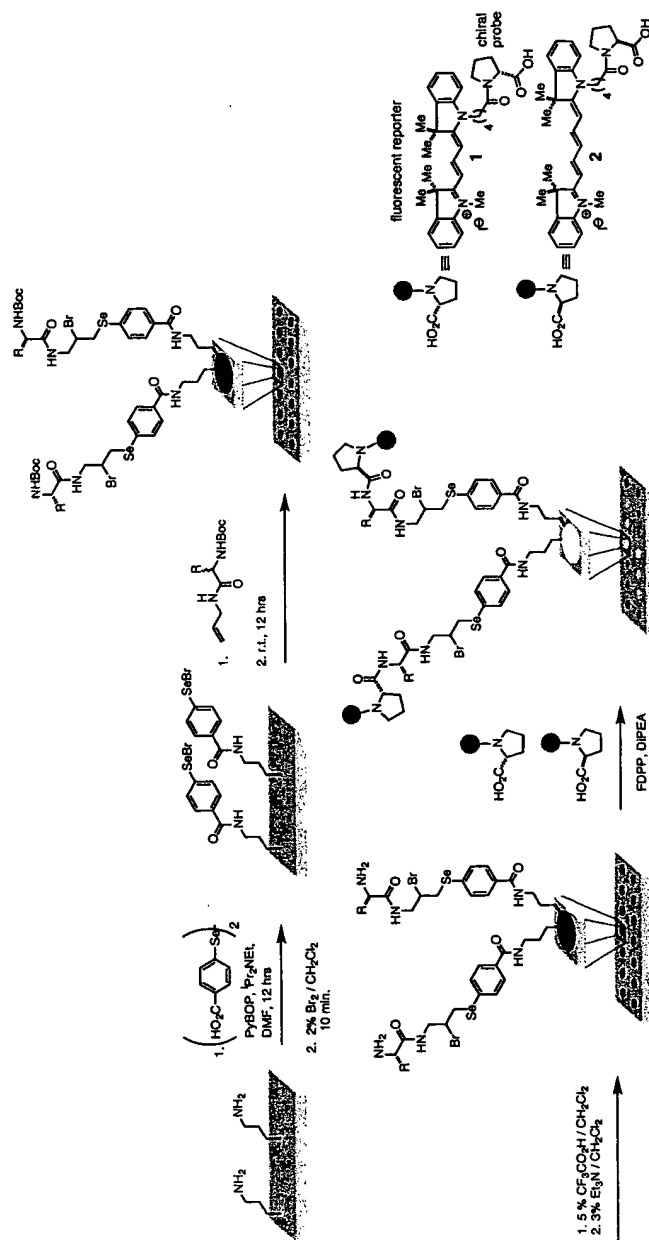


FIGURE 5

Attachment of amino acids as their allyl amides to nitro-functionalized microspheres

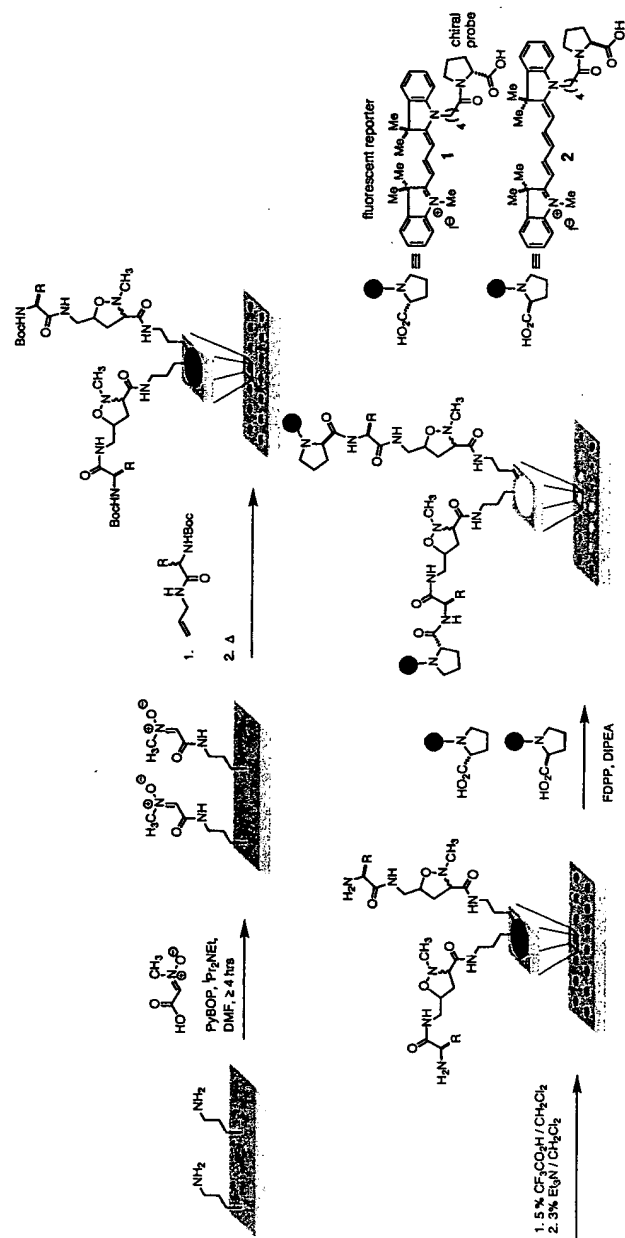


FIGURE 6

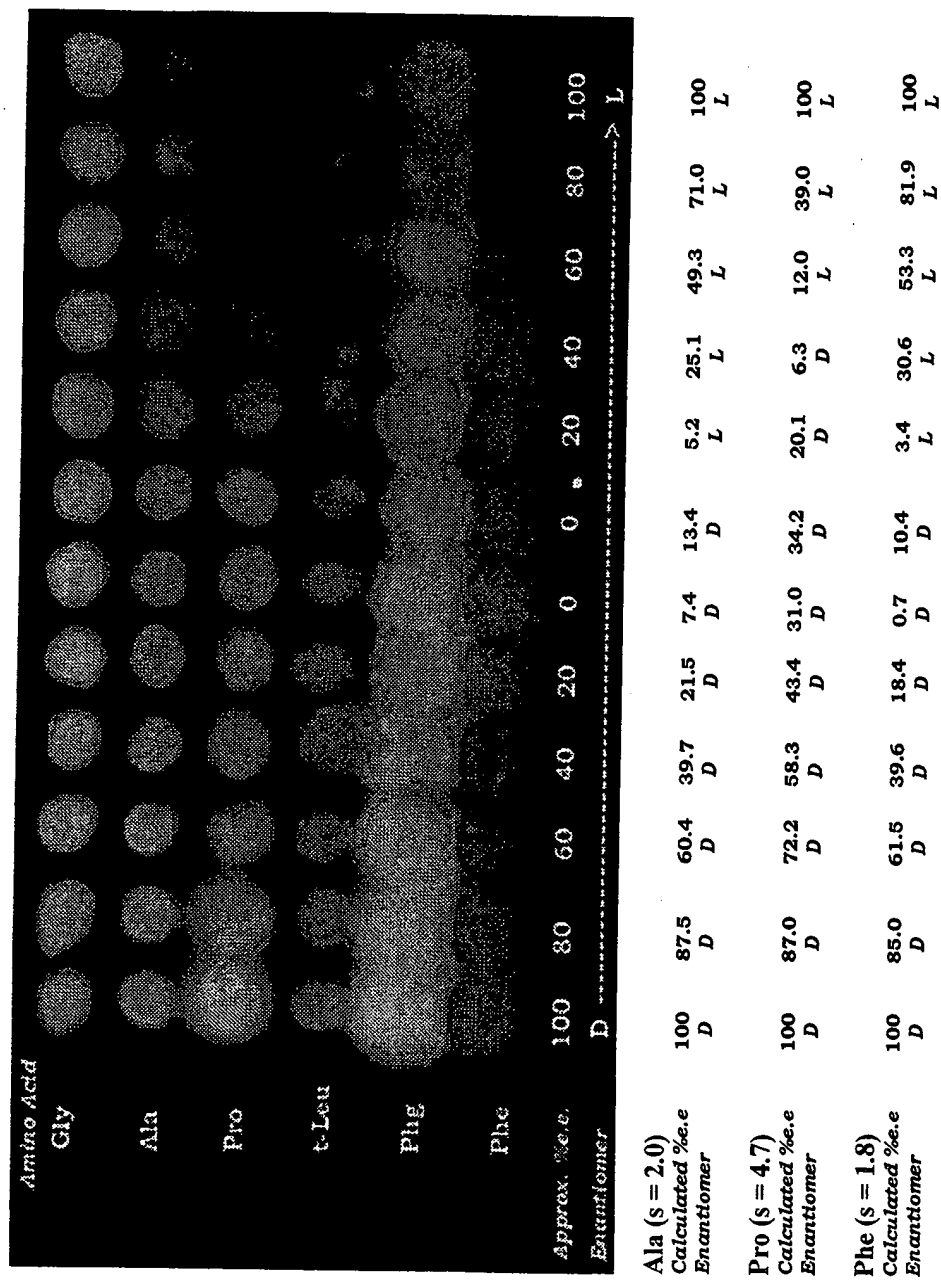


FIGURE 12

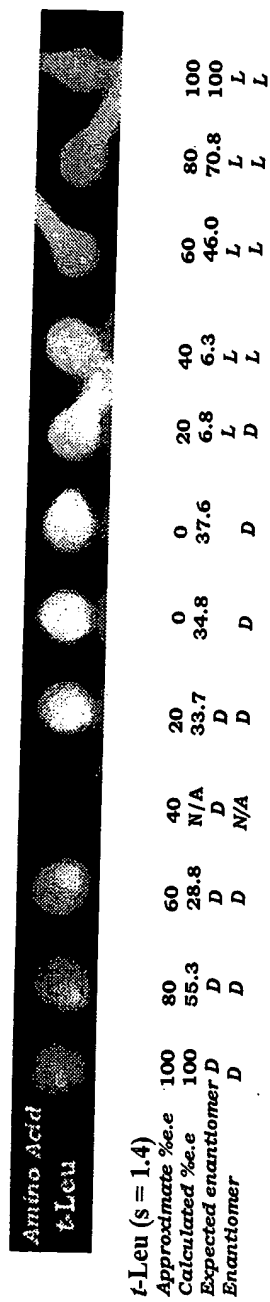


FIGURE 13

Entry	Amino Acid	Actual %ee																				Chemical Structure	Name	
		D-enantiomer										L-enantiomer												
1	Gly	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100		Glycine
2	Ala	100	91	80	67	53	55	29	22	21	12	0	12	24	32	42	61	60	71	76	90	100		Alanine
3	Val	100	89	79	71	53	52	29	31	20	12	0	13	25	34	42	53	57	76	77	92	100		Valine
4	Leu	100	90	80	70	60	50	36	30	20	12	0	15	30	35	47	54	62	73	79	90	100		Leucine
5	Pro	100	89	82	73	65	61	45	35	25	14	0	6	21	31	42	43	67	73	65	93	100		Proline
6	Ser	100	91	77	65	55	49	40	37	27	13	0	11	34	34	45	61	63	73	64	88	100		Serine
7	Cys	100	84	79	73	60	46	49	41	31	0	-1	40	32	46	54	65	68	77	83	100		S-Acetylmethylcysteine	

FIGURE 14

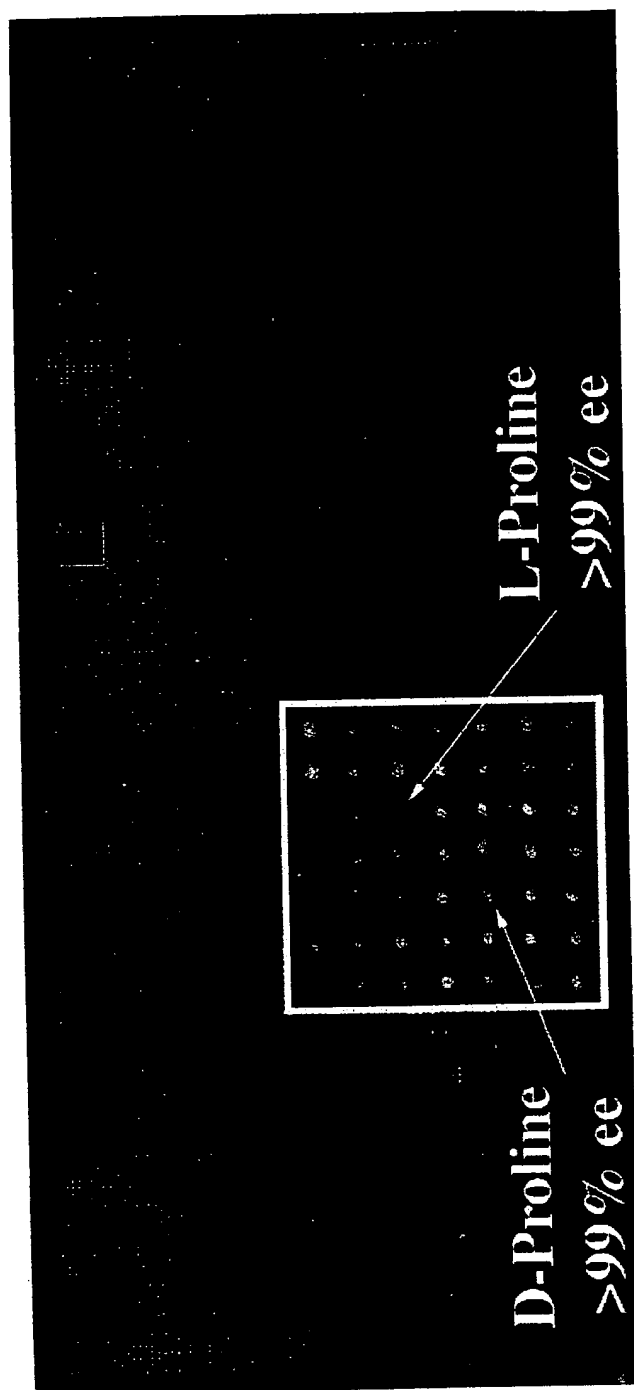


FIGURE 15

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